

NWS FORM E-5
(11-88)
(PRES. BY WSOM E-41)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA (HSA)

WFO Jackson, Mississippi

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

REPORT FOR:

MONTH

YEAR

August

2002

TO: Hydrometeorological Information Center, W/OH2
NOAA / National Weather Service
1325 East West Highway, Room 7230
Silver Spring, MD 20910-3283

SIGNATURE

Alan Gerard, MIC
In Charge of HSA

DATE

September 12th , 2002

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (WSOME-41)

A typical weather pattern for August prevailed during the month. Scattered showers and thunderstorms were very common. Rainfall events were again most numerous over Central and South central portions of the state. The remnants of Tropical Storm Bertha dumped some heavy rainfall amounts, estimated by radar to be around 5 inches, over northern Marion and southern Jefferson Davis Counties on the 5th. Rainfall amounts were less over extreme East and Southeast sections of Mississippi as well as the Vicksburg area and the extreme lower Yazoo delta. The highest 1 day total rainfall amounts for the month were 3.31 inches at Oakley Agricultural Experiment Station (South Hinds County), MS on the 16th and 3.14 inches at Crawford, MS on the 17th. Other 1 days totals: 3.10 inches at Bastrop, LA on the 17th; 2.86 inches at Winona, MS on the 26th and 2.80 inches at Portland, AR on the 15th.

Soil moisture was near normal over most of the HSA; however, areas in extreme east and southeast areas and the extreme lower Yazoo Delta were below normal. The only significant rises occurred on the lower Pearl where early month rainfall caused minor to moderate rises. No flooding occurred at any of the flood forecast points in the HSA during the month.

<u>RIVER BASIN</u>	<u>RAINFALL</u>	<u>DEPARTURE FROM NORMS</u>
Southeast Arkansas (Chicot & Ashley counties)	3.50 to 4.75 inches	Above normal.
Northeast Louisiana (Tensas, Boeuf, Bayou Macon & Lower Ouachita)	3.00 to 5.50 inches northern sections	Much above normal
	2.00 to 4.00 inches central sections	Slightly below to just above normal.
	3.25 to 4.50 inches southern section	Near Normal to just above normal

<i>Lower Yazoo</i>	<i>2.00 to 4.50 inches</i>	<i>Below normal over the lower portions of the basin...to well above over northern portions of the basin.</i>
<i>Big Black</i>	<i>2.00 to 2.50 inches upper and middle sections.</i> <i>2.00 to 2.75 inches lower sections</i>	<i>Below normal.</i> <i>Below normal.</i>
<i>Homochitto/ Bayou Pierre</i>	<i>3.00 to 6.00 inches</i>	<i>Near normal to just above normal.</i>
<i>Pearl (abv Jackson)</i>	<i>3.00 to 6.00 inches</i>	<i>Near normal upper basin to above normal over lower and middle basin.</i>
<i>Pearl (Blo Jackson)</i>	<i>2.00 to 5.00 inches</i>	<i>Well above normal over northern basin to above normal over lower basin.</i>
<i>Pascagoula</i>	<i>3.00 to 4.50 inches over the Leaf basin</i> <i>1.50 to 3.00 inches over the Chickasawhay</i>	<i>Below normal along Tallahala creek to just above normal over the leaf.</i> <i>Near normal in the extreme upper basin to much below normal over mid basin.</i>

The heaviest rainfall amounts in the HSA for the month were: 8.72 inches at Oakley Agricultural Experiment Station (South Hinds county), MS; 8.52 inches at D'lo, MS; 6.07 at Goshen Springs, MS; 6.04 inches at Clayton, LA; 5.85 inches at Meadville, MS; 5.67 inches at Ross Barnett Reservoir, MS. Some of the lowest reporting rainfall stations were: 1.29 inches at Quitman, MS; 1.41 inches at Shubuta, MS; 1.71 inches at Pickens, MS; 1.81 inches at Ackerman, MS; 1.99 inches at Laurel, MS.

Here at the WFO Jackson, the August monthly rainfall was 5.44 inches, which was 1.78 inches Above normal. Ending August 31st, we have had 41.16 inches of rain thus far this year, which is 2.24 inches above normal.

At the Meridian Airport, the August monthly rainfall was 2.30 inches, which was 1.04 inches below normal. Ending August 31st, Meridian has had 25.57 inches of rain thus far this year, which is 15.90 inches below normal.

The Mississippi River from Arkansas City, AR to Natchez, MS began the month with a rise and began to fall sharply to a low at mid month. The last half of the month saw moderate rises. The river was below seasonal norms for most of the month; however, by the end of the month the river from Arkansas City, AR to Natchez, MS approached seasonal norms. The provisional high and low stages for August are listed below:

Location	High Stage(ft)	Date	Low Stage(ft)	Date
Arkansas City, AR	7.12	08/05	2.28	08/14
Greenville, MS	18.48	08/05	13.75	08/14
Vicksburg, MS	11.57	08/06	6.66	08/15
Natchez,MS	18.09	08/06	13.70	08/16

Total Flood Warning products issued: 0
Total Flood Statement products issued: 0
Daily Rainfall Products (RRA'S) issued 31
Daily River Forecast Products (RVS'S) issued 31
Daily River Stage products (RVA'S) issued 31

Marty V. Pope
Service Hydrologist

Note: Stage and precipitation data was furnished with cooperation from Mississippi, Louisiana, and Arkansas, N.W.S. Cooperative Observers, United States Geological Survey, United States Army Corps of Engineers and the Pearl River Valley Water Supply District.

cc: USGS Little Rock District
USGS Ruston District
USCE Mobile District
USCE Vicksburg District
USCE Mississippi Valley Division
USGS Mississippi District
SRH Climate, Weather and Water Division
LMRFC
Pearl River Valley Water Supply District
Hydrologic Information Center
Southern Region Climate Center
Pat Harrison Waterway District